

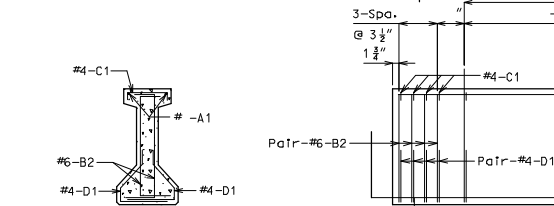
GIRDER DIMENSIONS

Concrete for prestressed girders shall be Class A-1 with $f'c =$ psi and $f'c1 =$ psi.

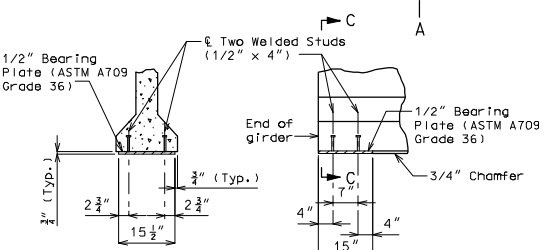
(+) indicates prestressing strand.

Use strands with an initial prestress force of kips.

Prestressing tendons shall be uncoated, seven-wire, low-relaxation strands, 1/2 inch diameter in accordance with AASHTO M 203, Grade 270. Prestensioned members shall be in accordance with Sec 1029.



SECTION A-A
Strands not shown for clarity.

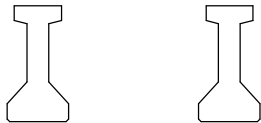


BEARING PLATE DETAILS

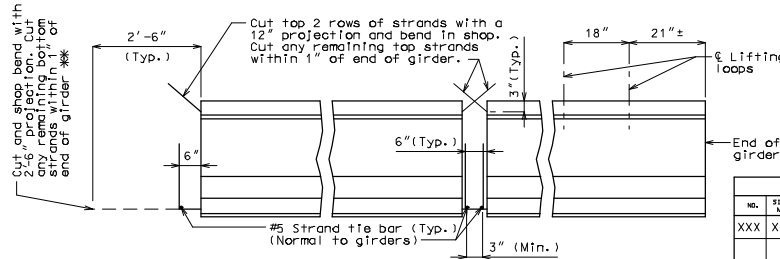
Galvanize the 1/2" bearing plate (ASTM A709 Grade 36) in accordance with ASTM A123.

Cost of furnishing, galvanizing, and installing the 1/2" bearing plate (ASTM A709 Grade 36) and welded studs in the prestressed girder will be considered completely covered by the contract unit price for Prestressed Concrete I-Girder.

Detailed
Checked



END OF GIRDER
STRAND ARRANGEMENTS



END BENT
STRAND DETAILS AT GIRDER ENDS

INTERMEDIATE BENT
STRAND DETAILS AT GIRDER ENDS

LOCATION OF
LIFTING LOOPS

BILL OF REINFORCING STEEL - EACH GIRDER				
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	REINFORCING DIAGRAM
XXX	X A1	XX'-XX"	20	
XXX	X B1	4'-1"	11	
16	6 B2	3'-6"	11	
XXX	C 1	13"	10	
XXX	D 1	2'-4"	9	

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

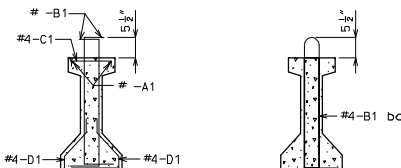
Actual lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1".

All reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.



SECTION B-B
Strands not shown for clarity.

B1 BAR
PERMISSIBLE
ALTERNATE
SHAPE

Cost of 3/4" ϕ coil tie rods placed in diaphragms will be considered completely covered by the contract unit price for Prestressed Concrete I-Girder.

Coil ties shall be held in place in the forms by slotted wire-setting-studs projecting through forms. Studs are to be left in place or replaced with temporary plugs until girders are erected, then replaced by coil tie rods.

For location of coil inserts at slab drains, see Sheet No. .

For location of coil ties, see Sheets No. & .

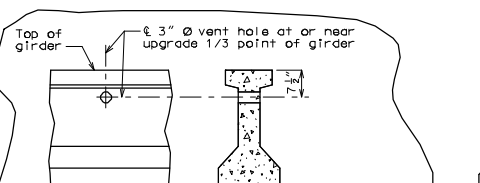
The 1 1/2" ϕ holes shall be cast in the web for steel intermediate diaphragms. Drilling is not allowed.

For details of diaphragms, see Sheet No. .

For Girder Camber Diagram, see Sheet No. .

*Length of coil tie rods at exterior girders at end bents = 2'.

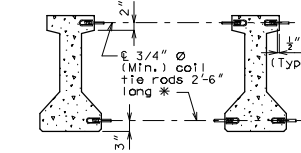
HALF ELEVATION OF GIRDER SPAN (-)
Exterior and interior girders are the same, except for coil ties and coil inserts for slab drains and holes for steel intermediate diaphragms.



PART ELEVATION OF GIRDER

Place vent holes at or near upgrade 1/3 point of girders and clear reinforcing steel or strands by 1 1/2" minimum and steel intermediate diaphragm bolt connections by 6" minimum.

PART SECTION NEAR VENT HOLE



EXTERIOR GIRDERS
AT INT. BENTS

EXTERIOR GIRDERS
AT END BENTS
INTERIOR GIRDERS
AT ALL BENTS

DETAILS OF COIL TIES

Note: This drawing is not to scale. Follow dimensions.

Sheet No. of

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED

07/28/2008

ROUTE

STATE

DISTRICT

BR

COUNTY

JOB NO.

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DDR1

DESCRIPTION

DATE

COMMISSION

105 WEST CAPITAL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION

COMMISSION

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